

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COMES

Pioneer Hi-Bred International, Inc.

THETERS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS OM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, ONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR VIT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84

SOYBEAN

'96M20'

In Testimonn Therest, I have hereunto set my hand and caused the seal of the Hunt Inviety Trotection Office to be affixed at the City of Washington, D.C. this sixteenth day of August, in the year two thousand and four.

Atlest:

Jam John

Commissioner Plant Variety Protection Office Agricultural Marketing Service U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)

| (Instructions and Information collection) | ction burden statement on rev | verse) | | | | | | |
|--|--|--|---|--|------------------------|---|--|--|
| NAME OF OWNER Pioneer Hi-Bred Inter | mational, Inc | | 1 | 2. TEMPORARY DESIGNAT EXPERIMENTAL NAME | . VARIETY NAME 6M20 | | | |
| 4. ADDRESS (Street and No., or R.F.D. No. 7300 N. W. 62 nd Avenue P.O. Box 1004 Johnston, IA 50131 | , City, State, and ZIP Code, and Count | try) | | 5. TELEPHONE (include 515-254-2638 6. FAX (include area cod | 2 | FOR OFFICIAL USE ONLY | | |
| | | | | 515-253-2478 | | FILING DATE | | |
| IF THE OWNER NAMED IS NOT A "PERSONG ORGANIZATION (corporation, partnership Corporate) | SON™, GIVE FORM OF o, association, etc.} | 8. IF INCORPORAT STATE OF INCO | ED, GIVE RPORATION | 9. DATE OF INCORPORATI May 6, 1926 | ON | 1/27/2004 | | |
| 10. NAME AND ADDRESS OF OWNER R Daria Schmidt, Ph. D. 7300 N.W. 62 nd Avenue P.O. Box 1004 Johnston, IA 50131-1004 | EPRESENTATIVE(S) TO SERVE IN T Sleve Callistein, Esq 7100 N.W 62 ^{or} Avenue P.O Box 1000 Johnston, IA 50131-1000 | HIS APPLICATION. (Fi | irst person listed will | (receive all papers) | | FILING AND EXAMINATION FEES: \$ 3,652.00 DATE 1/27/2004 CERTIFICATION FEE: \$ 432.00 DATE 7-7-04 | | |
| 11. TELEPHONE (Include area code) | 12. FAX (Include area code) | 13. E-N | 1AIL | | 14, CROF | KIND (Common Name) | | |
| 515-254-2638 | 515-253-2478 | daria.schn | midt@pioneer.com Soybean | | | | | |
| 18. CHECK APPROPRIATE BOX FOR EACH reverse) a. X Exhibit A. Origin and Breedil b. X Exhibit B. Statement of Distinct. X Exhibit C. Objective Descript d. X Exhibit D. Additional Descript | ng History of the Variety nctness ion of Variety | instructions on | CERTIFIED S YES 20. DOES THE O VARIETY BE | | of the Plant Varie | ETY BE SOLD AS A CLASS OF ety Protection Act) NO (If "no," go to item 22) YES NO EGISTERED CERTIFIED | | |
| verification that tissue culture wa repository) | e untreated seeds or, for tuber propaga ill be depositied and maintained in an a \$2,705), made payable to "Treasurer o | approved public | | | IS? | YES NO REGISTERED CERTIFIED | | |
| | | | (If additional e | xplanation is necessary, please | use the space | indicated on the reverse.) | | |
| 22. HAS THE VARIETY (INCLUDING ANY HAFROM THIS VARIETY BEEN SOLD, DISPOTHER COUNTRIES? YES IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCUIT | OSED OF, TRANSFERRED, OR USE | ED IN THE U.S. OR | PROPERTY F | RIGHT (PLANT BREEDER'S RIC | GHT OR PATE | NO AND ASSIGNED | | |
| 24. The owners declare that a viable sample of for a tuber propagated variety a tissue cult. The undersigned owner(s) is(are) the owner and is entitled to protection under the prov. Owner(s) is(are) informed that false repres. | er of this sexually reproduced or tuber isions of Section 42 of the Plant Variet | propagated plant varie ty Protection Act. | ty, and believe(s) th | | | | | |
| SIGNATURE OF OWNER A S C | hnight | | SIGNATURE OF C | WNER | | | | |
| NAME (Flease print or type) Daria H. Schmidt | | | NAME (Please prin | nt or type) | | | | |
| CAPACITY OR TITLE Director, Technology Integration and Associativ | re Genetics | 2604 | CAPACITY OR TIT | LE. | | DATE | | |

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated: DO-NOT-use-masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office
Telephone: (301) 504-5518
FAX: (301) 504-5291
Homepage: http://www.ams.usda.gov/science/pypo/pvp.htm

2004 00 07 3

ITEM

18a Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date,
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces ST-470 (02-99) which is obsolete.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 96M20

Variety 96M20 evolved from a cross made in the summer of 1996 in Mississippi with the following parentage:

Parentage: 9631/70951

70951 = Hutchesen/70546

70546 = Hutchesen/91014

91014 = 9551/90772

90772 = 9551/90688

90688 = A4715/G40-3P9392*

*G40-3P9392 is an experimental line with the Roundup Ready (40-3-2) gene

Variety 96M20 is an F5-derived line which was advanced to the F5 generation by modified single-seed descent. The F5 progeny row of 96M20 was grown in the winter of 1998/1999 in Puerto Rico. Subsequently, 96M20 has undergone five years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, resistance to stem canker, and resistance to Roundup labeled herbicides, variety 96M20 was assigned a commercial number.

The purification block was grown during the summer of 2001 in Arkansas and 12 sublines were harvested. An approximate one-fifth (0.2) acre increase was grown in Argentina in the winter of 2001/2002. Sixteen (16) acres of parent seedstock (foundation seed equivalent) were grown in 2002 and approximately 801 acres of seedstock and production seed were grown in the summer of 2003.

20040 0 0 7 3

Exhibit B. Statement of Distinctness

Soybean Variety 96M20

Variety 96M20 is most similar to variety 96B01. Both varieties have white flowers, buff hila, gray pubescence, and resistance to Roundup branded herbicides. However, 96M20 is susceptible to Race 3 Soybean Cyst Nematode whereas 96B01 is resistant to Race 3 Soybean Cyst Nematode. Soybean variety response to cyst nematode races is determined from multiple year (at least four), replicated bioassay screening in a controlled growth chamber environment with soil media sufficiently inoculate with nematodes. In all cases, known resistant and susceptible checks are included in bioassay screens for data quality assurance.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326 W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE **BELTSVILLE, MD 20705**

EXHIBIT C (Soybean)

| | | | Ol | | | | | TON OF V max (L.) M | VARIETY | Paraco mys (Servelage | ر موټند سېدو د اه کارو کا | -Carrier and the calculation | erange ye. |
|---|------------------|---------|-------------|---------|---------|-----------|---------|---------------------------|----------------------|-------------------------|---------------------------|------------------------------|------------|
| NAME OF APPLICANT(S) | | | | | I WILL | u (Osyc | cinc | nux (L.) I | 1011.) | FOR OFFICIA | L USE ON | ILY | |
| Pioneer Hi-Bred, International | | | | | | | | | | | | | |
| ADDRESS (Street and No. or R.F.D. No., | City, State, and | Zip Cod | | | | | | | | 2°00°4 | 00 | 07 | 3 |
| 7200 62nd Avenue | | | | | | | | | | | | ** 0 | |
| P.O Box 1004 Johnston, IA 50131-1004 | | | | | | | | | | 96M20 | ME | | |
| | | | | | | | | | | 501120 | | | |
| | | | | | | | | | | TEMPORARY DESIGNATIO | | RIMENTA | AL |
| | | | | | | | | | | | | | |
| PLEASE READ ALL INSTRUC | TIONS CA | REFU! | LLY: P | ace the | e appro | priate nu | mber | that describ | es the varietal | character of this va | ariety in | the box | es below. |
| Place a zero in the first box (e.g. | 9 | 9 | 9 | | | 9 | | | | less or 9 or less res | | | |
| quantitative | 9 | 9 | 9 | or | 0 | 9 | | | | | | | |
| nlant characters should be besse | l an a minin | | 100 -1- | mta C | | 44 | -11 | | | | 4 | | - |
| plant characters chould be based | | | | | | | | | | | same tr | іаі. Коу | ai |
| Horticulutral Society or any reco | | | | | | | | | | sed: | | | |
| Please answer all questions for y | our variety; | lack o | f respon | ise may | y delay | progress | of you | ır applicatio | n. | | | | |
| A. MORPHOLOGY | | | | | | | | | | | | | |
| Seed Shape | | | | | | | | | | | | | |
| <u></u> | | | | | | | | | | | | | |
| $1 = \begin{array}{c} 1 = \text{Spherica} \\ \text{(L/W, L/T, a} \end{array}$ | | atios · | < 1.2) | | | _ | | al - Flatte > 1.2; L/T | ned ratio < 1.2 |) | | | |
| 3 = Elongate | d | | | | | 4 = Flo | าทศจ | te - Flatter | har | | | | |
| (L/T ratio . 1 | | atio < | (1.2) | | | | | | ratio > 1.2) | | | | |
| Seed Coat Color: | , | | , | | | (| | , <u>.</u> , . , , , | 14020 - 112) | | | | |
| Seed Coat Color: | | | | | | | | | | | | | |
| 1 $1 = Ye$ | llow | 2 = (| Green | | 3 = B | rown | | 4 = Black | 5=(| Other | | | |
| Contract | | | | | | | | | (Plea | ise Specify | | | |
| Seed Coat Luster: | | | | | | | | | (| ar aprenty | | | |
| 1 1 = Dul | 1 | 2 = 5 | Shiny | | | | | | | | | | |
| Seed Size: | | | • | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 12.6 grams/1 | 00 seeds | | | | | | | | | | | | |
| Hilum Color: | | | | | | | | | | | | | |
| 1 = Bu | ff | 2 = 3 | ellow | | 3 = B | rown | 4 | = Gray | 5 = I | mperfect Black | ••• | * | |
| 6 = Bl; | ack | 7 = 0 |)ther (| Pleas | se Spec | cify) | | | | _ | | | |

A. MORPHOLOGY (Continued)

Cotyledon Color:

1

1 = Yellow

2 = Green

Seed Protein Peroxidase Activity:

1

1 = Low

2 = High

Hypocotyl Color:

1

1 = Green ('Evans' or 'Davis') 2 = Green with Bronze Bands below Cotyledons

('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons

4 = Dark Purple extending to

below Cotyledons unifoliolate leaves ('Beeson' or 'Pickett 71') ('Hodgson', 'Coker', or

Leaflet Shape:

3

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

1

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1

1 = Tan

2 = Brown

3 =Black

Pubescence Color:

1

1 = Gray

2 = Brown (Tawny)

3 =Light Tawny

Plant Habit:

1

1 = Determinate

2 = Semi - Determinate

3 =Indeterminate

4 =Intermdeiate

Maturity Group:

09

1 = 000

2 = 00

3 = 0

4 = I

 $5 = \Pi$

6 = III

11 = VIII

7 = IV 12 = IX 8 = V

13 = X

9 = VI14 = XI

10 = VII15 = XII

Maturity Subgroup:

2

Please enter a value from 0 - 9

B. DISEASE REACTION

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

0

Bacterial Pustule (Xanthomonas campestri pv. glycines (Nakano) Dye)

1

Bacterial Blight Pseudomonas syringa pv. glycinea (Coerper) Young, Dye, and Wilkie)

0

Wildfire Blight Pseudomonas syringa pv. tabaci (Wolf Foster) Young, Dye, Wilkie)

B. DISEASE REACTION (Continued) 0 = Not Tested1 = SusceptiblFungal 1 Brown Spot (Septoria glycinesHemmi) Frogeye Leaf Spot (Cercospora sojina Hara) race 4 0 0 race 3 race 1 race 2 0 Othe (Please Specify) 0 race 5 race 6 0 Target Spot (Corynespora cassiicola (Berk. Curt.) Wei) Downey Mildew (Peronospora trifoliorum var. manchuric (Naum.) Syd. ex Gäum) 0 0 Powdery Mildew (Microsphaera diffusa Cke. and Pk.) 0 Brown Stem Rot (Phialophora gregata (Allington Chamberlain) W. Gams.) 2 Stem Canker (Diaporthe phaseolorum (Cke. and Ell.) Sacc. var caulivora Athow and Caldwell Pod and Stem Blight (Diaporthe phaseolorum (Cke. and Ell.) Sacc. var sojae (Lehman) Wehm 1 0 Purple Seed Stain (Cercospora kikuchii (T. Matsu. and Tomoyasu) Gardener) 1 Rhizoctonia Root Rot (Rhizoctonia solani Kühn) Phytophthora Root Rot (Phytophthora megasperma Drechs. f. sp glycinea (Kuan Erwin)) 0 0 race 22 0 0 race 15 race 8 race 1 0 0 race 23 0 0 race 16 race 2 race 9 0 0 race 24 1 0 race 17 race 10 race 3 1 0 0 0 race 25 race 18 race 11 race 4 0 0 0 0 race 26 race 19 race 12 race 5 Other (Please Specify) 0 0 0 race20 race 13 race 6 0 0 1 race 21 race 14 race 7

1 Bud Blight (Tobacco Ringspot Virus)

1 Yellow Mosaic (bean Yellow Mosaic Virus)

| | DISEASE REACT | · | • | 1 = Susceptible | 2 = Resistant | 3 = Tolerant |
|-----|---------------------|----------------------------|-----------------------|-----------------------|---------------|------------------|
| - | 1 Cowpea Mosa | ic (Cowpea Chlorot | ic Virus) | | | |
| | 1 Pod Mottle (Be | ean Pod Mottle Viru | 115) | | | |
| | 1 Seed Mottle (S | Soybean Mosaic Virt | ıs) | | | |
| Ne | matode | | | | | v |
| Soy | bean Cyst Nematode | (Heterodera glycin | res Ichinohe) | | | |
| | 0 race 1 | O race 4 | 0 race 9 | | | |
| 1 | O race 2 | O race 5 | O race 14 | | | |
| 1 | L race 3 | O race 6 | Other | (Please Specify) | | |
| | Lance Nematod | le <i>(Hoploaimus col</i> | umbus Sher) | | | |
| 2 | Southern Root 1 | Knot Nematod <i>(Me</i> | loidogyne incognita (| Kofoid and White) | Chitwo | |
| , . | | | | | | |
| | - I MARKET H ROOF I | Knot Nematod (Me | loidogyne hapla Chit | vood) | | |
| 0 | Peanut Root Kn | ot Nematode (Meloi | idogyne arenaria (Nes | l) Chitwood) | | |
| 0 | Reniform Nemat | lode <i>(Rotylenchus</i> r | eniformu Linwood a | nd Olivera) | | |
| 0 | • | | | | | |
| | Savantse Nemate | ove (Meloidogyne ja | avanica (Treub) Chit | Yood) | | |
| - | Other Nematode | (Please Specify) | | | | |
| PH | YSIOLOGICAL | RESPONSES | 0 = Not Tested | = Susceptible 2 | - Resistant | 3 = Tolerant |
| 0 | Iron Chlorosis on | Calcareous Soil | · · | | | |
| 0 | Phosphorus | | Othe | (Pleuse Specify) | | |
| Ó | Boron | | | | | |
| 0 | Altining | | | | | |
| | Snlt | | | | | |
|) | | | | | | |

| D. INSECT REACTIONS | 0 = Not Tested | 1 = Susceptible | 2 = Resistant | 3 = Tolerant |
|---|------------------------------------|--|---|--|
| Fungal | | | | |
| 0 Mexican Bean Beetle | Epilachna varivestis Mulsant) | | | |
| O Potato Leaf Hopper (E | impoasca fabae (Harris)) | | | |
| Other (Please Specify) | | | | |
| E. HERBICIDE REACTION | NS 0 = Not Tested | 1 = Susceptible | 2 = Resistant | |
| 0 Metribuzin | | | · | |
| 0 Bentazone | | | | |
| 1 Sulfonylurea | | | | |
| 2 Glyphosate | | | | |
| 0 Glufosinate | | | | |
| 0 Pendimethalin | | | | |
| Other (Please Specify) | | | | |
| F. TRANSGENIC COMPOS | ITION | | | |
| Has the development of the subject | variety included the insertion o | of genetic material fi | rom an organism (| other than a sovbean. |
| or, the removal of genetic material | | Yes | □ No | • , |
| If yes, please complete the following | ; infomation requests*. Use add | ditional pages if nec | essary. | |
| 1. Please state the vector's name: | | | | |
| 2. Please state the vector component | nts: | | | |
| 3. Please describe the genetic mater | rial successfully transferred into | o the subject variety | 7 . | |
| 4. Please describe the insertion pro | tocol: | | | |
| * A literature citation(s) explain the "Transgenic Composition" port details of the vector components and al. Development, Identification, and | d insert elements are summariz | s fully addressed in ed in Figure 1 and 7 | the following pub Table 1 on page 14 | lication. Specific 153. Padgette, S.R. et |
| G. BIOCHEMICAL MARKE | ERS | | | |
| Please describe any biochemical info (e.g. Simple Sequences Repeats, Res pages if necessary. | | | | |

H. COMMENTS

Exhibit D. Additional Description of the Variety

Soybean Variety 96M20

In Exhibit C we have identified variety 96M20 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 96M20 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 96M20 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 96M20 is an early Group 6 variety. If Group 6 varieties are divided into tenths, the relative maturity of 96M20 is 6.2.

| REPRODUCE LOCALLY. Include form number and edition date on a | ill reproductions. | FORM APPROVED - OMB No. 0581-005 |
|---|---|--|
| U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE | The following statements are made i 1974 (5 U.S.C. 552a) and the Paper | |
| EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP | Application is required in order to descertificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued | 421). The information is held |
| 1. NAME OF APPLICANT(S) | 2. TEMPORARY DESIGNATION | 2. VARIETY NAME |
| Pioneer Hi-Bred International, Inc | OR EXPERIMENTAL NUMBER | 96M20 |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) | 5. TELEPHONE (Include area code) | 6. FAX (Include area code) |
| 7300 N.W. 62 nd Avenue | 515-254-2638 | 515-253-2478 |
| P.O. Box 1004 Johnston, IA 50131-1004 | | |
| | 7. PVPO NUMBER 20(| 4 00 07 3 |
| 8. Does the applicant own all rights to the variety? Mark an "X" in the lf no, please explain. | ne appropriate block. | X YES NO |
| 9. Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country | based company? | X YES NO |
| 10. Is the applicant the original owner? | If no places argues are of the fal | Laurin au |
| | If no, please answer one of the follo | lowing: |
| a. If the original rights to variety were owned by individual(s), is | (are) the original owner(s) a U.S. Nation | al(s)? |
| | | allo). |
| YES NO If no, give name of count | • | • |
| b. If the original rights to variety were owned by a company(ies) |), is (are) the original owner(s) a U.S. ba | sed company? |
| YES NO If no, give name of count | ry | |
| 11. Additional explanation on ownership (If needed, use the reverse | for extra space): | |
| | | |
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| | | |
| Please Note: | | ******* |
| Plant variety protection can only be afforded to the owners (not licens | sees) who meet the following criteria: | |
| If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals o | erson must be a U.S. national, national of the U.S. for the same genus and speci | of a UPOV member country, or es. |
| If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species. | yed the original breeder(s), the company country which affords similar protection | must be U.S. based, owned by to nationals of the U.S. for the same |
| 3. If the applicant is an owner who is not the original owner, both the | original owner and the applicant must m | neet one of the above criteria. |
| The original breeder/owner may be the individual or company who did Act for definitions. | rected the final breeding. See Section 4 | 11(a)(2) ot the Plant Variety Protection |
| According to the Paperwork Reduction Act of 1995, no persons are required to respond to a for this information collection is 0581-0055. The time required to complete this information constructions, searching existing data sources, gathering and maintaining the data needed, are | collection is estimated to average 6 minutes per respo | nce including the time for reviewing the |
| The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the b status. (Not all prohibited bases apply to all programs). Persons with disabilities who require contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). | pasis of race color national origin sev religion age | disability political beliefs and marital or familial |

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